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JAMECO® ELECTRONICS

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FC-7150U : 0.1~1.5GHz, Universal function

Jameco Part Number 201873

- Frequency measuring range : 0.1Hz to 150MHz in A, B input and 50MHz ~ 1.5GHz in C input
- Trigger level adjustment for input A
- Separate and common mode selectable for input A and B
- Period / Total measurement for input A
- Time interval and ratio measurement for input A and B
- Slope mode selectable for input A and B
- 9 digit display with 0.01mHz resolution in 1 sec.
- High sensitivity external reference input function (higher than 20mVrms)
- Microprocessor controlled
- Reciprocal technique for high resolution at low counting frequency
- Self check function executed to perform an automatic self diagnosis of various counter function
- Push-scanning for selecting function and gate time
- Low-pass filter(100kHz, -3dB) installed for removing noise signal in low frequency measuring
- AC/DC coupling function (selectable X1 / X10 attenuator)
- Data hold function
- Optional RS-232C serial interface function for communication with computer

FREQUENCY MEASUREMENT

- Display : 9 digit large green LED display (Overflow, gate time, mHz, Hz, kHz, MHz, ns, μs, s, hold)
- Range : 0.1Hz ~ 1.5GHz
- Gate time : 0.01s, 0.1s, 1s, 10s
- Resolution : 1nH ~ 10Hz
- Accuracy : ¡¾ resolution ¡¾ time base ¡¾ 1 count

INPUT CHARACTERISTICS

- Terminal : A, B, C
- Sensitivity : 20mVrms A, B input / 30mVrms C input
- Impedance : 1M§Ù < 40pF A, B input / 50§Ù C input
- Max. voltage : 250Vrms A, B input / 3Vrms C input
- Attenuator : X 1, X 10 A, B input
- Slope A, B : + or - selectable
- Trigger A : preset or variable
- Low pass filter : 100kHz(-3dB) A, B input

MULTI FUNCTION FOR INPUT A

- Period : 10ms ~ 10s range with 1ps ~ 1ns resolution / ¡¾ resolution ¡¾ trigger error ¡¾ 1 count accuracy
- Totalize : 5Hz ~ 30MHz range / 0 ~ 999999999(Max)
- RPM : 6 ~ 900 X 106 RPM

COMPARISON FUNCTION FOR INPUT A, B

- Time interval (A ¡æ B) : 1μs ~10s range / 100ns LSD display / ¡¾ LSD ¡¾ trigger error resolution / accuracy : ¡¾ LSD ¡¾ trigger error ¡¾ time base error X time interval / 1, 10, 100, 1000 multiplier
- Ratio (A/B) : 0.1Hz ~ 10MHz A input range, 0.1Hz ~ 10MHz B input range / ¡¾ LSD ¡¾ (trigger error X frequency A)/N resolution / accuracy : ¡¾ 1count of A ¡¾ B trigger error ¡¾ frequency A

TIME BASE CHARACTERISTIC

- Internal time base : 10MHz TCO frequency, 3 X 10^{-7}/ month, under 5 X 10^{-6} (0 + 50¡É) temperature stability, under 1 X 10^{-7} for 10% variation line voltage
- Frequency output : 10MHz frequency / 2.5Vp-p amplitude / 500§Ù impedance
- External input : 10MHz frequency / 20mVrms ~ 5Vrms input level / 500§Ù impedance

GENERAL

- Operating environments : 0¡É ~ 50¡É
- Range for guaranteed : 25¡É¡¾ 5¡É
- Power requirement : AC 115 / 230V ¡¾ 10%, 50/60Hz
- Dimension : 255mm(W) X 80mm(H) X 260mm(D)
- Accessories : power cord, fuse, operation manual, BNC cable
- Factory optional selection : RS-232C interface / TCXO

Close